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configured for mounting on a spindle motor, where due to the smaller diameter of the discs a reduced torque is required to rotate a stack of smaller diameter discs than is required to rotate a stack of standard diameter discs, and;

an actuator assembly for reading data from and writing data to a selected ones of the discs.

2. The disc drive assembly of claim 1, wherein the disc drive housing has a 3½ inch configuration and each of the recording discs is a magnetic recording disc that has a diameter that is smaller than the standard configuration of 95 mm.

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3. A disc drive assembly including:

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a disc drive housing comprising a standard configuration;

an actuator assembly comprising at least one actuator arm with a transducer, the transducer being attached to a distal end of the actuator arm, with each actuator assembly operating to position each transducer adjacent a respective surface of a rotating rigid recording disc; and

means for rotating a stack of rigid recording discs within the housing, each disc having at least one recording surface and having a diameter smaller than the diameter of a rigid disc associated with the standard configuration, where the means requires less torque to rotate a stack of smaller diameter discs than is required to rotate a stack of standard diameter discs.

D3 E11 4. The disc drive assembly of claim 3, wherein the disc drive housing has a 3½ inch configuration and each of the recording discs is a magnetic recording disc that has a diameter that is smaller than the standard configuration of 95 mm.

D4 5. The disc drive assembly of claim 1, wherein each of the recording discs is a magnetic recording disc and the stack of discs are mounted to a spindle motor for operational rotation at 10,000 rpm.

D5 E12 6. The disc drive assembly of claim 2, wherein each of the magnetic recording discs has a diameter of 84 mm.

7. The disc drive assembly of claim 2, wherein the stack of discs are mounted to a spindle motor for operational rotation at 10,000 rpm.

D6 E3 11. The disc drive assembly of claim 2, wherein the disc drive housing has a 3½ inch low-profile configuration and the stack of magnetic recording discs comprises six magnetic recording discs within the housing which is greater than a number of discs of the standard configuration of discs.

D7 12. The disc drive assembly of claim 11, wherein each of the magnetic recording discs has a diameter of 84 mm.

D8 E4 13. The disc drive assembly of claim 3, where the recording discs are magnetic recording discs.

D9 14. The disc drive assembly of claim 4, wherein each of the magnetic recording discs has a diameter of 84 mm.

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18. The disc drive assembly of claim 4, wherein the disc drive housing has a standard 3½ inch low-profile configuration and the number of magnetic recording discs in the housing is six which is greater than the number of discs of the standard configuration of five discs.

19. The disc drive assembly of claim 18, wherein each of the magnetic recording discs has a diameter of 84 mm.

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20. The disc drive assembly of claim 18, wherein the means rotating includes a spindle motor supporting the plurality of discs for operational rotation at 10,000 rpm.

21. The disc drive assembly of claim 1 further comprising the spindle motor.

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22. The disc drive assembly of claim 21 where the reduction in required torque correspondingly reduces a run current required by the spindle motor to rotate a stack of smaller than standard discs than is required to rotate the stack of standard diameter discs.

23. The disc drive assembly of claim 21 where the spindle motor rotating the stack of smaller diameter discs has a reduced power dissipation over a spindle motor rotating a stack of standard diameter discs.

24. The disc drive assembly of claim 23 where the spindle motor rotating the stack of smaller diameter discs operates at a reduced temperature from a spindle motor rotating a stack of standard diameter discs.

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25. The disc drive assembly of claim 2 where a number of smaller diameter discs in the stack is greater than a number of standard diameter discs in the stack contained in a disc drive housing in the standard configuration.

26. The disc drive assembly of claim 3 where the reduction in required torque by the means for rotating correspondingly reduces a run current required by the spindle motor to rotate a stack of smaller than standard discs than is required to rotate the stack of standard diameter discs.

27. The disc drive assembly of claim 13 where the means for rotating includes a hub operatively configured for mounting on a spindle motor.

28. The disc drive assembly of claim 27 where the spindle motor operationally rotates at 10,000 rpm.

29. The disc drive assembly of claim 28 where a number of smaller diameter discs in the stack rotated by the means is greater than a number of standard diameter discs in a stack contained in the standard disc drive housing configuration.

30. A disc drive assembly comprising:
a disc drive housing comprising a standard 3 1/2 inch low profile configuration; and
a disc drive supported in the housing having:
an actuator assembly comprising at least one actuator arm with a transducer, the transducer being attached to a distal end of the actuator arm, with each actuator assembly operating to position each transducer adjacent a respective surface of a rotating rigid magnetic recording disc;
a stack of rigid magnetic recording discs having a smaller than standard diameter of 84 mm, as compared to a standard diameter of 95mm, a number of the stack of smaller than

standard diameter discs being greater than a number of standard diameter discs contained in the disc drive housing; a hub upon which the stack of smaller than standard 84 mm discs is mounted, the hub being operatively configured for mounting to a spindle motor which operationally rotates the stack of discs at 10,000 rpm, where a torque required to rotate the smaller than standard stack of discs is less than that required to rotate a stack of standard diameter discs, where the reduction in required torque correspondingly reduces a run current required by the spindle motor to rotate the stack of smaller than standard discs than is required to rotate the stack of standard diameter discs.

31. The disc drive assembly of claim 28 where the spindle motor rotating the stack of smaller diameter discs has a reduced power dissipation over a spindle motor rotating a stack of standard diameter discs.

32. The disc drive assembly of claim 29 where the spindle motor rotating the stack of smaller diameter discs operates at a reduced temperature from a spindle motor rotating the stack of standard diameter discs.

REMARKS

The applicant has filed an RCE to request continued examination of the present application. The applicant provides this response with the RCE to amend the claims and to provide remarks regarding the patentability of the invention.

Amendments have been made to claims 1, 3, 11, 13, and 20. The amendments have been aimed at providing further clarification and refinement to the claims. Claims 21-32 have been added to claim previously unclaimed, but disclosed